STAROVEROVA, A.G.; KRUTKOVA, A.S.; RAYKHSHTAT, G.N.; TIKHOMIROVA, L.I.

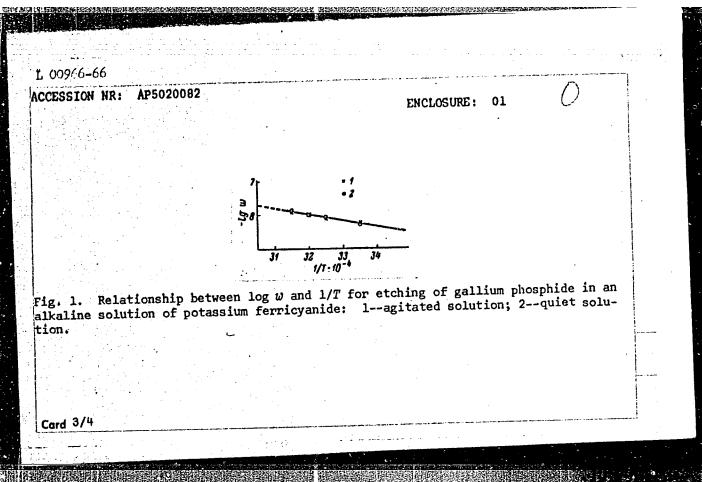
Epidemiological role of carriers of toxigenous diphtheria cultures under various epidemiological conditions. Trudy IEMG no.8:101-112 161 (MIRA 17:2)

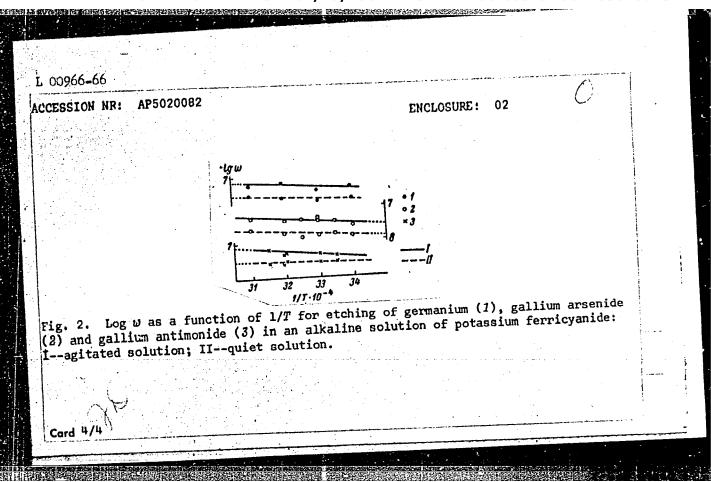
1. Moskovskiy nauchno-issledovatel skiy institut epidemiologii, mikrobiologii i gigiyeny (for Staroverova, Krutkova). 2. Sanitarno-epidemiologicheskaya stantsiya Sverdlevskogo i Kominternovskogo rayonov (for Raykhshtat, Tikhomirova).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

00966-66 Eft(1)/T/EfA(h) IJP(c) AT UR/0079/65/035/008/1336/1340 ACCESSION NR: AP5020082 621.794.4 : 546.289 : 546.681/2 AUTHOR: Orlova, G. M.; Tikhomirova, L. I. TITLE: Chemical etching of semiconductor compounds type A and A III B in an alkaline solution of potassium ferricyanide SOURCE: Zhurnal obshchey khimii, v. 35, no. 8, 1965, 1336-1840 TOPIC TAGS: etched crystal, germanium semiconductor, gallium compound, gallium arsenide, indium compound, chemical kinetics, semiconductor single crystal, phosphide, antimonide, germanium single crystal ABSTRACT: The kinetics of chemical etching of single crystals of germanium, gallium phosphide, gallium arsenide, gallium antimonide and indium antimonide was studied in an 0.18 molar solution of potassium ferricyanide in 1.0 molar KOH. The rate of etching w in g-moles/cm2 sec was calculated from the formula  $\omega = \frac{\Delta g}{M \cdot \Delta t \cdot 8}$ where  $\Delta g$  is change in sample weight during time  $\Delta t$  in seconds; H is molecular weight; Card 1/4

L 00966-66 ACCESSION NR: AP5020082	ろ	
and s is sample surface area in cm <sup>2</sup> . The single crystal surfaces an MIM-7 microscope. The etching was done in non-agitated as wel (400 rpm) media in the 20-45°C range. The relationship between r temperature for gallium phosphide in an alkaline solution of pota is shown in fig. l of the Enclosure. Etching rate as a function various other semiconductors is given in fig. 2 of the Enclosure. rogeneous chemical reaction is used to control etching of gallium ing of germanium, gallium arsenide and gallium antimonide is cont	rate of etchingssium ferricy of temperatur. The rate of phosphide.	g and vanide re for hete- Etch- fusion
The ionic character increases in the following sequence: InSb > 0 "The authors thank N. A. Goryunova for supplying the single cryst phosphide and V. S. Vekshina for supplying the single crystals of Orig. art, has: 4 figures, 1 table.	f gallium anti	imonide."
"The authors thank N. A. Goryunova for supplying the single crystals of phosphide and V. S. Vekshina for supplying the single crystals of Orig. art. has: 4 figures, 1 table.  ASSOCIATION: Leningradskiy gosudrastvennyy universitet (Leningradskiy)	f gallium anti	imonide."
"The authors thank N. A. Goryunova for supplying the single crystals of phosphide and V. S. Vekshina for supplying the single crystals of Orig. art. has: 4 figures, 1 table.  ASSOCIATION: Leningradskiy gosudrastvennyy universitet (Leningradskiy)	f gallium anti	imonide."





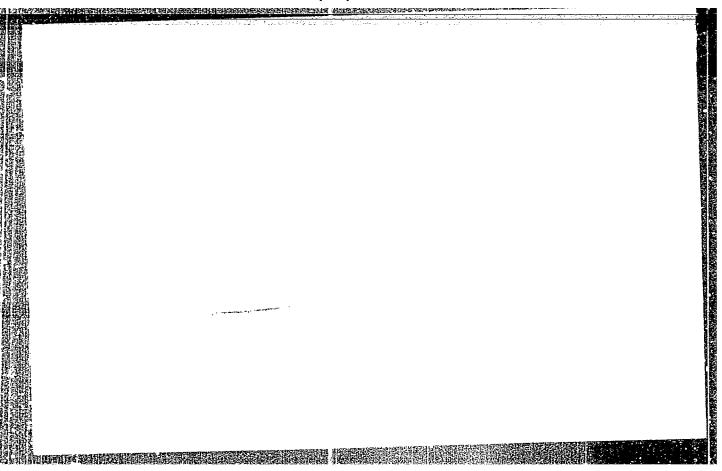
SAMSONOV, G.V.; POPOVA, N.M.; TIKHOMIROVA, L.I.

Preparation of cerium monosulfide, Zhur. prikl. khim. 31 no.2:

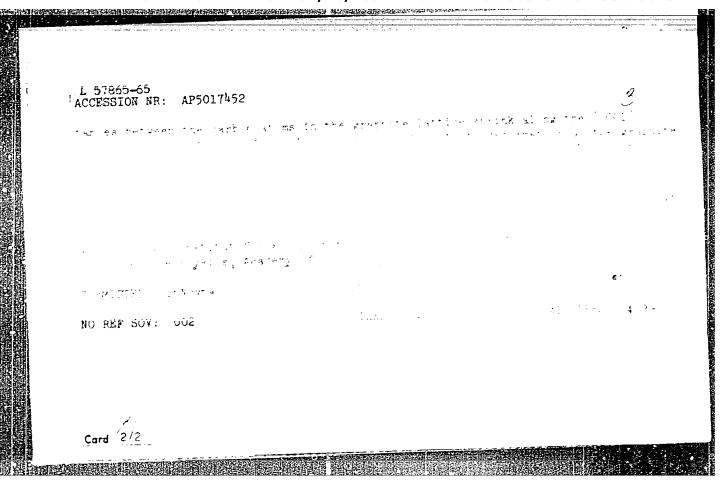
(MIRA 11:5)

153-157 F '58.

(Cerium sulfides)



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Feringer, Ya. M., Nikoliskaya,	
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SOURCE: AN BOSE. Foklady, v. 162, no. 5, 1	1 m 2 g = 1 m 2
polymorphic transformation, high pressure 1	. who is two series knapolines knapoline. Lamoni symines s



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3,1520

AUTHORS:

Vinogradova, R.G., Rozhnova, I.A., Tikhomirova, L.N.

TITLE:

Harmonic analyzers of frequency spectrum of non-periodic electric

oscillations

PERIODICAL:

Referativnyy zhurnal. Astronomiya i Geodeziya, no. 5, 1961, 21, abstract 5A148 ("Sb. rabot po vopr. elektromekhan. In-t elektromekhan.

AN SSSR", 1960, no. 4, 276 - 281)

The authors describe briefly the eight-channel harmonic analyzer. TEXT: (electric circuit diagrams are presented) which was constructed at W3M(IEM), or AS USSR for studying the frequency spectrum of stellar scintillation with the purpose of determining the optimum frequency of light flux modulation in the automatic star-guidance system of telescopes. This instrument, together with the MND-2 (MPO-2) oscillograph, provides for the wide possibilities of studying various fluctuation processes. The mean, maximum and envelope amplitudes of harmonics can be determined on the basis of oscillograms. The time of frequency spectrum analysis amounts to a few tenths of a second. The error of the instrument (measurements) does not exceed 10%.

[Abstracter's note: Complete translation]

Card 1/1

S. Zhuravlev

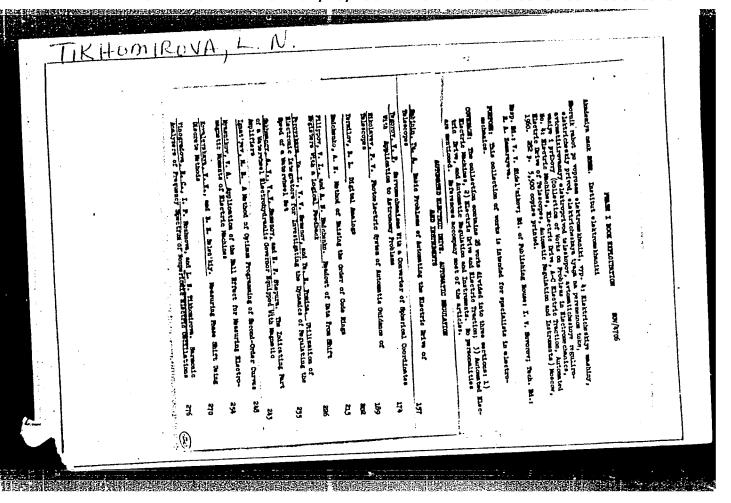
KOBULASHVILI, Sh.N.; ROTENBERG, A.G.; TIKHOMIROVA, L.N.; KAMINARSKAYA, A.K.; KOTOVICH, A.G.

Quick-freeze GKA-2 apparatus mounted on a gravity conveyor. Khol.tekh. 39 no.4:4-11 Jl-Ag '62. (MIRA 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kholodil'noy promyshlennosti (for Kobulashvili, Rotenberg, Tikhomirova, Kaminarskaya). 2. TSentral'nyy nauchno-issledovatel'skiy institut konservnoy i ovoshchesuchil'noy / promyshlennosti (for Kotovich).

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L 38960-66 EWT(d)/EWT(1)/EWP(k)/EWP(h)/T-2/EWP(v)/EWP(1) WW
ACC NR. AP6020031 (N) SOURCE CODE: UR/0066/66/000/002/0022/0025

AUTHOR: Rotenberg, A. G. (Candidate of technical sciences); Tikhomirova, L. N.

ORG: All-Union Scientific-Research Institute of the Refrigeration Industry (Vsesoyuznyy nauchno-issledovatel'skiy institut kholodil'noy promyshlennosti)

TITLE: Back-pressure valves with a damper device

SOURCE: Kholodil'naya tekhnika, no. 2, 1966, 22-25

TOPIC TAGS: valve, refrigeration equipment, REFRIBERATION ENGINEERING

ABSTRACT: The authors describe back-pressure valves which are mounted on the heating pipelines of the compressors of refrigerating devices. They serve to prevent the overflow of ammonia from the high-pressure side to the low pressure side and to eliminate the escape of ammonia from the high-pressure line into the atmosphere if the compressor breaks down. The back-pressure valves utilize a polyfluoroethylene resin seal and piston damping. Two types of back-pressure valves are described: 1) direct-flow and 2) angular back-pressure valves. The direct-flow back-pressure valves can be installed in horizontal and vertical positions and the angular back-pressure valves only in a vertical position. Tests carried out on a stand at different pressures showed that closing of the valve upon back flow of the

Card 1/2

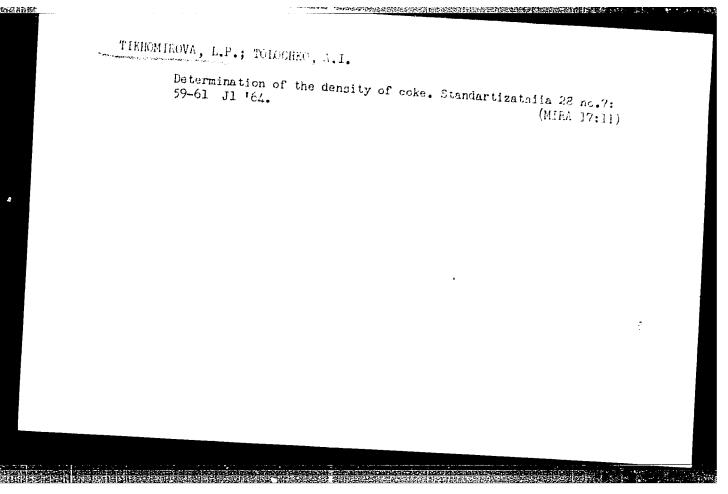
UDC: 621.646

ACC NR: AP6020031

medium was accompanied by its negligible escape into the atmosphere. At an initial pressure in the vessel from 0.5 to 2 gauge atm. the drop of pressure owing to escape of the medium in the vessel from 0.5 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed 0.05 kg/cm². The authors recommend the direct-flow back-pressure valves did not exceed

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Card



9,3277

S/194/61/000/011/069/070 D271/D302

AUTHORS:

Prokapovich, Z.I. and Tikhomirova, L.P.

TITLE:

Pulse-code modulation converters

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 11, 1961, 8, abstract 11 L40 (Tr. nauchno-tekhn. konferentsii Leningr. elektrotekhn. in-ta svyazi, no. 1, L., 1961, 67-72)

TEXT: The conversion of a continuous signal into a pulsecode represents a complex of the several following operations: Quantization of the signal in time, quantization of the signal level, and coding of the level. Level quantization and coding are always done together. Three methods of coding are used: 1) Counting; 2) weighing, or the method of step compensation: 3) counting of pulses in a certain time interval by means of a binary counter. At the receiving end of the system a decoder reconstitutes a continuous signal out of the pulse-code. The block diagram is discussed of a

Card 1/2

Pulse-code modulation converters

S/194/61/000/011/069/070 D271/D302

coder based on the weighing method and of a decoder with a 7-digit shift register. 2 references. / Abstracter's note: Complete trans-

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

AUERMAN, L.Ya.; SUVOROVA, M.A.; TIKHOMIROVA, L.V.

Determining the compressibility of bread crumb on a penetrometer.

Izv. vy9 ucheb. zav.; pishch. uckh. ho., pishchevoy promyshlennosti, Mafedra tekhnologicheskiy institut pishchevoy promyshlennosti, Mafedra tekhnologii khlebopekarnogo proizvodstva.

(Bread) (Penetrometers)

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TIKHOMIROVA, L.V.

Characteristics of the diurnal variation of air temperature in the southeast of Western Siberia. Trudy NIIAK no.33: 80-88 '65. (MIRA 18:12)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

SOTSKAYA, V.P.; SMIRNOV, V.A.; TIKHOMIROVA, L.Ya.

THE TOTAL PROPERTY OF THE PROP

Effect of pH on alcohol yield in the thermal treatment of crushed raw materials. Izv. vys. ucheb. zav.; pishch. tekh. no.6:67-69 163. (MIRA 17:3)

1. Leningradskiy mezhotraslevoy nauchno-issledovatel skiy institut pishchevoy promyshlennosti, laboratoriya tekhnologii spirta.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

(Hature study) (Rabbits)

È. r	L 28010-66 ENT(m) ACC NR: AP6018198
Ţ	SOURCE CODE: UR/0241/65/010/012/0030/0034
	AUTHOR: Liberman, A. N.; Vaynshteyn, P. R.; Krisyuk, E. M.; Tikhomirova, H. D.
	ORG: Leningrad Scientific Research Institute of Radiation Hygiene, Ministry of Public Health, RSFSR (Leningradeld)
	gigiyeny Ministerstva zdravookhranemiya RSFSR)
	TITLE: Characteristics of radiation sickness induced by soft rays
	SOURCE: Neditsinskaya radiologiya, v. 10, no. 12, 1965, 30-34
	TOPIC TAGS: radiation sickness, mouse, xray irradiation, blood, radiation biologic effect
	ABSTRACT: The object of the experiments described in this article was to
	body weight, and leukocyte index of the newinheral blood of investigated
	Mice. Albino mice of both sexes and 2/2 to 20 grams in weight to used
37 St 📗 🗓	in the experiments. All of the experimental animals were subjected to the action of x-rays administered in a dose of 4,130 r. A distinct picture of
	radiation sickness developed in all of the animals, characterized by alcohor
1 3	cent for the females and 20 percent for the males by the 21st day after the
	irradiation; a sharp increase in the leukocyte count of the peripheral
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in to	he leu of th	kocyte e skin : ted wit	count of lesions, n the dev	lished the the perip providing elopment y skin de	heral big a basic of the	lood coin s for the skin affe	ncided was e premise ections	ith the o that induced	deve they by r	lop- nay adie-	
tio	a due t	o the d	ecomposit	ion of the	ie prote	ins in t	he affec	ted ar	eas of	the:	2
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L 28010-66 EWT (m) ACC NR: AP6018198 SOURCE CODE: UR/0241/65/010/012/0030/0034 AUTHOR: Liberman, A. N.; Vaynshteyn, P. R.; Krisyuk, E. M.; Tikhomirova, M. D. ORG: Leningrad Scientific Research Institute of Radiation Hygiene, Ministry of Public Health, RSFSR (Leningradskiy nauchno-issledovatel skiy institut radiatsionnoy gigiyeny Ministerstva zdravookhraneniya RSFSR) TITLE: Characteristics of radiation sickness induced by soft rays SOURCE: Meditsinskaya radiologiya, v. 10, no. 12, 1965, 30-34 TOPIC TAGS: radiation sickness, mouse, xray irradiation, blood, radiation biologic ABSTRACT: The object of the experiments described in this article was to determine the effect of a single sublethal dose of soft rays on the skin, body weight, and leukocyte index of the peripheral blood of irradiated mice. Albino mice of both sexes and 24 to 29 grams in weight were used in the experiments. All of the experimental animals were subjected to the action of x-rays administered in a dose of 4,130 r. A distinct picture of radiation sickness developed in all of the animals, characterized by clearly, visible lesions of the skin layers; a decrease in weight averaging 26 percent for the females and 20 percent for the males by the 21st day after the irradiation; a sharp increase in the leukocyte count of the peripheral Card

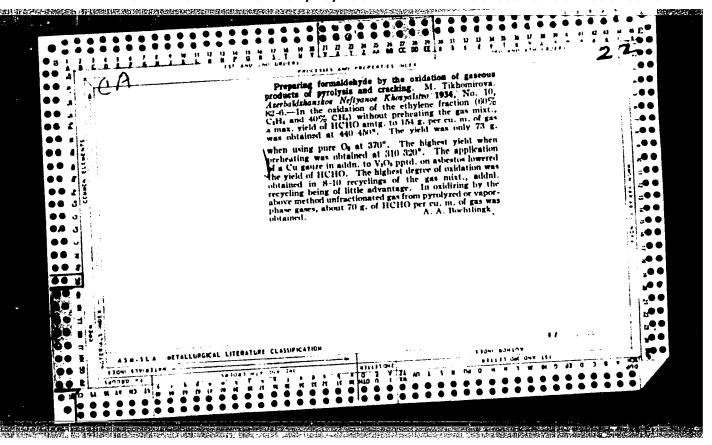
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	blood. Observations established that the loss of weight and the increase in the leukocyte count of the peripheral blood coincided with the develop-
	ment of the skin lesions, providing a basis for the premise that they may be associated with the development of the skin affections induced by radia-
	144 delegan and marked by obin debydagtion and the development of intextuer
	tion due to the decomposition of the proteins in the affected areas of the skin. Orig. art. has: 1 figure. /JPRS/
	SUB CODE: 06 / SUBM DATE: 12Aug64 / ORIG REF: 003 / OTH REF: 002
-	SUB CODE: 06 / SUBM DATE: 12Augo4 / ORIG REF: 005 / OTH REF: 002
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	Card 2/2 pla

CHEBUKOV, M.F., kand.tekhn.nemk; TIKHOMIROVA, M.F., inzh.

Using lime ash binding material for producing concrete and reinforced concrete. Bet.i zhel.-bet. 9 no.12:551-554 D '63. (MIRA 17:2)

TIKHOHIROVA, M.F., ingh.; NAUMENRO, A.S., ingh.; YANTSEN, T.G., ingh.

Mixed lime-esc cement on a base of ash from electric stations in the Middle Ural Economic Region. Sbor. trud. Sverd. nauch-issl. inst. po stroi. no.10:34-50 '63. (MIRA 17:10)



KURBATOV, A. D., TIKHOMIROVA, M. M.

Sex - Cause and Determination

Basal metabolism in animals and sex of progeny. Agrobiologiia, No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

TIKHOMIVOVA, M. M.

KURBATOV, A.D.; TIKHONIROVA, N.M.

Effect of the intensity of basal metabolism in animals on the ratio of sexes in their progeny. Uch. sap. Len. un. no.165 '53.

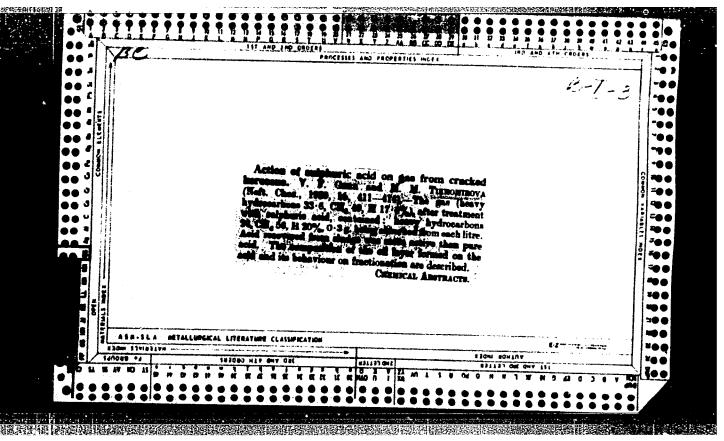
1. Laboratoiya genetiki zhivotnykh kafedry genetiki i selektsii (saveduyushchiy kafedroy professor N.V. Turbin) (Metabolism) (Sex(Biology))

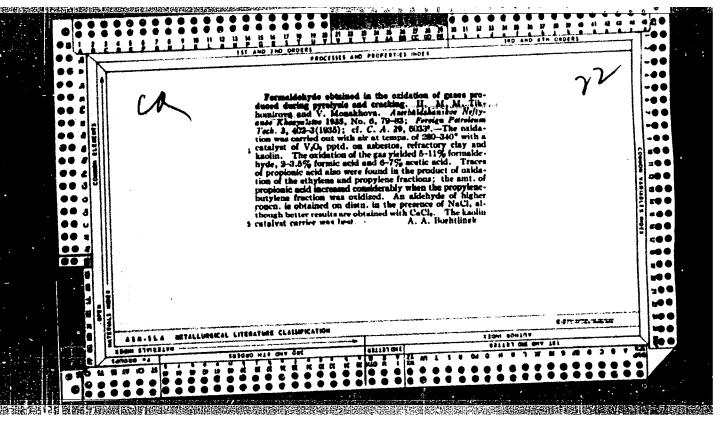
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TIXHOMIROVA, M. M.

TIKHOMIROVA, M. M.: "The effect of the intensity and nature of metabolism in animals on the relation between the sexes in the offspring". Leningrad, 1955. Leningrad Order of Lenin State U imeni A. A. Zhdanov. (Dissertations for the Degree of Candidate of Biological Sciences.)

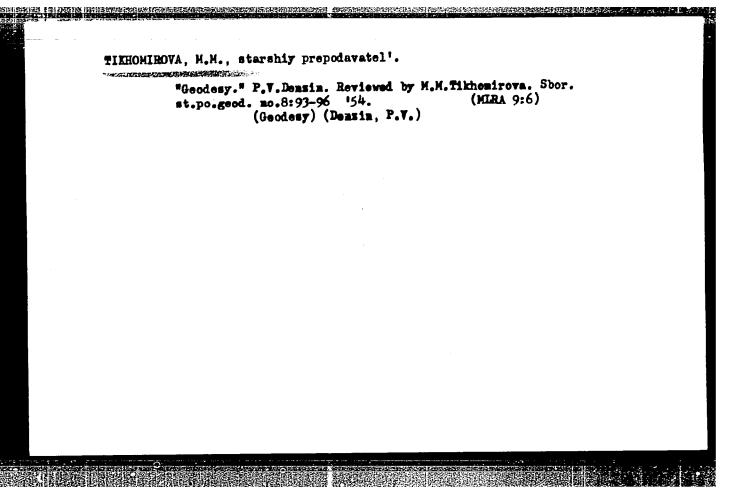
So: Knizimava letovis! No. 49, 3 December 1955. Moscow.

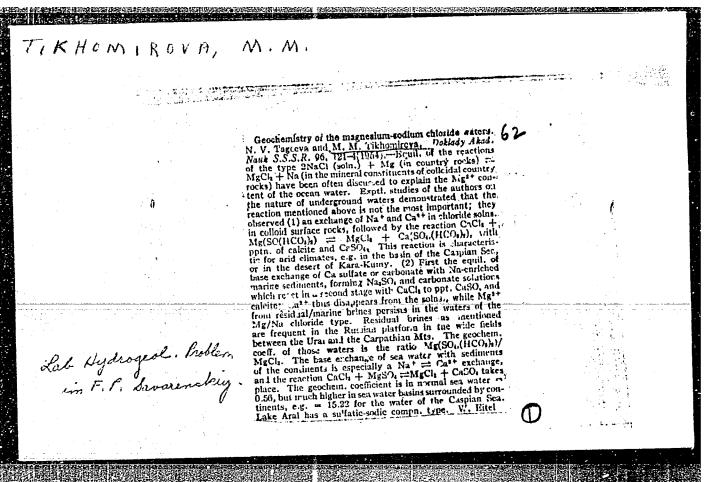




TAGEYEVA, N.V.; TIKHOMIROVA, M.M.

Geochemistry of the natural waters of the Usboy region. Doklady Akad. Mank
S.S.S.R. 84, 1201-2 '52.
(CA 47 no.22:12705 '53)





TIKHOMINOVA, M.M.

Certain features in the early diagenesis of sedimentary rocks in the northwestern regions of the Black Sea. Dokl. AN SSSR 112 no.3:513-515 Ja '57.

(MLRA 10:4)

1. Laboratoriya gidrogeologicheskikh problem im. F.P. Savarenskogo Akademii nsuk SSSR. Predstavleno akademikom D.I. Shcherbakovym. (Black Sea region--Rocks, Sedimentary)

ZYBINA, Ye.V.; TIKHOMIROVA, M.M.

Nature of the sex chromatin. TSitologiia 7 no.5:585-601 (MIRA 18:12)

1. Laboratoriya morfologii kletki Instituta tsitologii AN SSSR i kafedra genetiki Leningradskogo universiteta. Submitted June 30, 1964.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

ZYBINA, Ye.V.; TIKHOMIROVA, M.M.

Endomitotic polyploidization of trophoblast giant cells. Sbor. rab. Inst. tsit. no.5:53-63 '63. (MIRA 17:2)

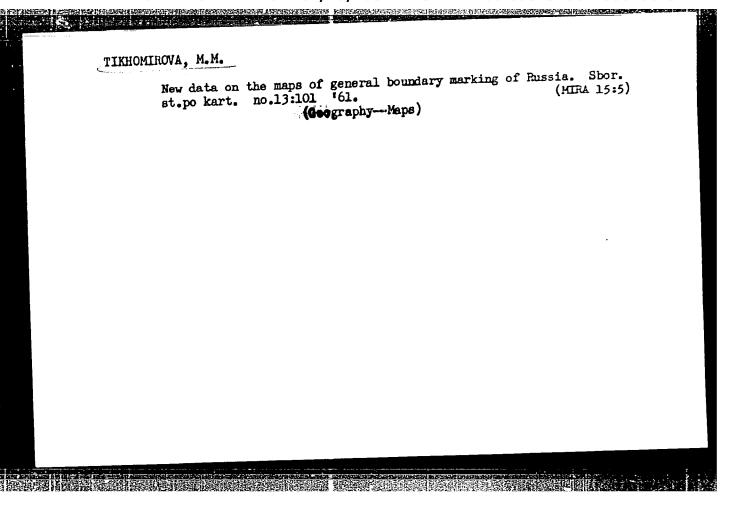
- 1. Laboratoriya morfologii kletki Instituta tsitologii AN SSSR
- i kafedra genetiki Leningradskogo gosudarstvennogo universiteta.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

TIKHOMIROVA, M.M.

Study of the aftereffect of X rays on the primary nondisjunction of X chromosomes. Trudy MDIP. Otd. biol. 7:198-202 163.

(MIRA 16:11)



TAGEYEVA, Nadezhda Viktorovna; TIKHOMIROVA, Mariya Matveyevna;
PEREL'MAN, A.I., doktor geol.-miner. nauk, otv. red.;
FILIPPOVA, B.S., red. izd-va; DOROKHINA, I.N., tekhn. red.

[Geochemistry of the bottom sediments in the Black Sea (northwestern part)]Gidrogeokhimiia donnykh osadkov Chermogo moria (savero-zapadnaia chast'). Moskva, Izd-vo Akad. nauk SSSR, (MIRA 16:1)

1962. 145 p.

(Black Sea--Deep-sea deposits)
(Geochemistry)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

S/1.69/62/000/010/054/071 D228/D307

Tageyeva, M.V., Tikhomirova, M.M. and Korunova, V.V. AUTHORS:

Water during the diagenesis of marine sediments TITLE:

(in the example of the northern seas)

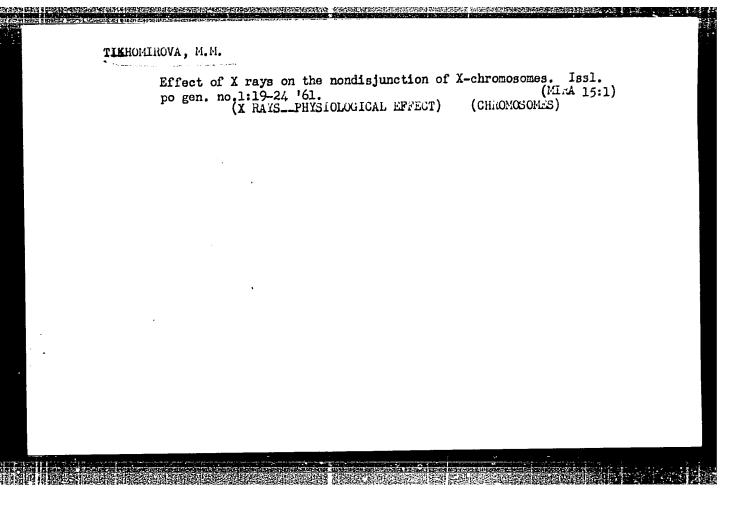
Referativnyy zhurnal, Geofizika, no. 10, 1962, 7, PERIODICAL:

abstract 10V61 (In collection: Sovrem. osadki morey

i okeanov, M., AN SSSR, 1961, 577-596)

Data on the chemical composition of bottom sediments TEXT: and the muddy (interstitial) waters held in them are given for the Gentral Arctic basin of the Barents, Kara, Chukotsk and Bering Seas. In comparison with ocean water these latter are enriched in I by 150-200 times, in Zn by 10-15 times, and in Cu, B, K and Br (only by 10-20%). There is a tendency for the concentration of I and B to grow in muddy water, and for that of Zn to diminish, as the pH increases.

Card 1/1



#### CIA-RDP86-00513R001755610013-2 "APPROVED FOR RELEASE: 07/16/2001

TAGEYEVA, N.V.; TIKHOMIROVA, M.M.

Determining the composition of exchange cations in sediments of the Caspian Sea. Trudy Lab. gidrogeol. probl. 30:48-56 '60. (MIRA 14:4)

(Caspian Sea-Cations)

CIA-RDP86-00513R001755610013-2" APPROVED FOR RELEASE: 07/16/2001

## TIKHOMIROVA, M.M.

Possibilities of using general boundary maps for the study of landform dynamics. Vest.Mosk. un. Ser.5: Geog. 15 no.4:38-45 Jl - Ag '60. (MIRA 13:9)

l. Kafedra geodezii i kartografii Moskovskogo universiteta.
(Physical geography—Maps)

#### "APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2 THE PARTY IN THE PROPERTY OF THE PROPERTY OF THE PARTY OF

TIKHOMIROVA, M.M.; TAGEYEVA, N.V. Experimental geochemical study of the formation of types of under-الإصار فلا للاستوار ما الرازي. Experimental geochemical sound of the following states are ground waters. Trudy Lab.gidrogeol.probl. 16:261-284 58. (MIRA 12:2)

1. Laboratoriya gidrogeologicheskikh problem imeni F.P. Savarenskogo AN SSSR.

(Water, Underground)

TIKHEMIKERM, M. H.

RUMANIA / Cosmochemistry, Geochemistry, Hydrochemistry. D

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60537.

Author : N. V. Tageyeva, M. M. Tikhomirova.

Inst

: Some Features of Early Diagenesis of Deposits in Title

North-Western Part of Black Sea.

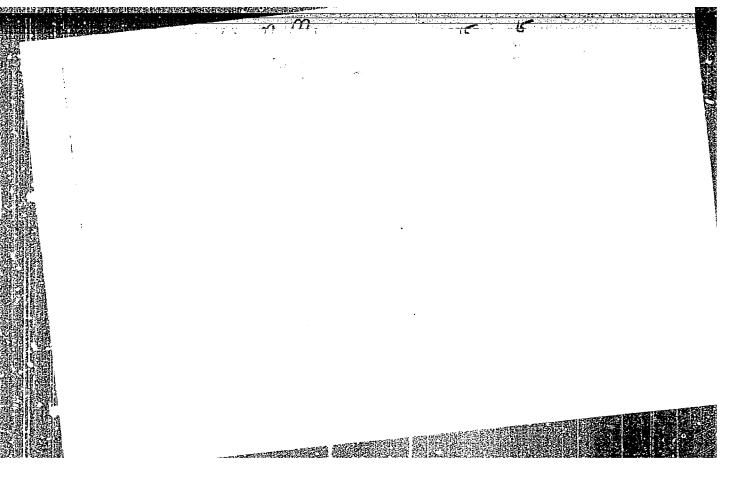
Orig Pub: An. Rom.-Sov. Ser. geol.-geogr., 1958, 12, No 1,

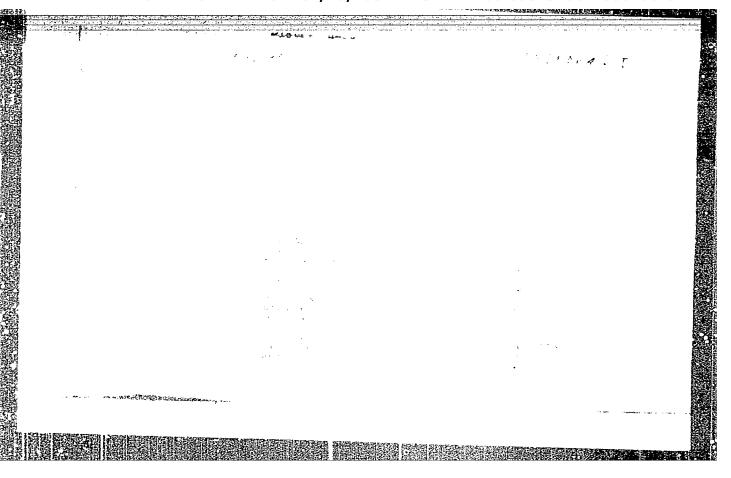
25-28.

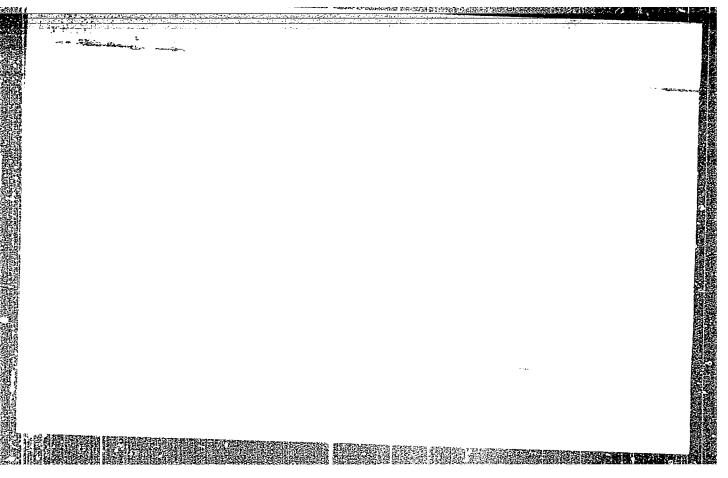
Abstract: Translation. See RZhKhim, 1957, 21058.

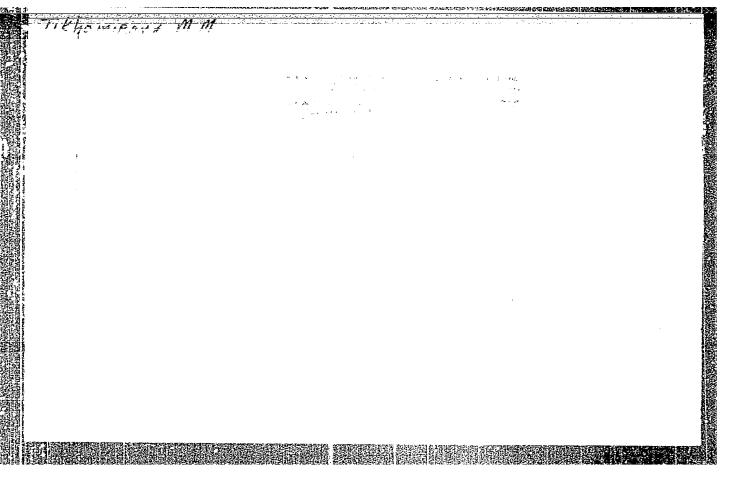
Card 1/1

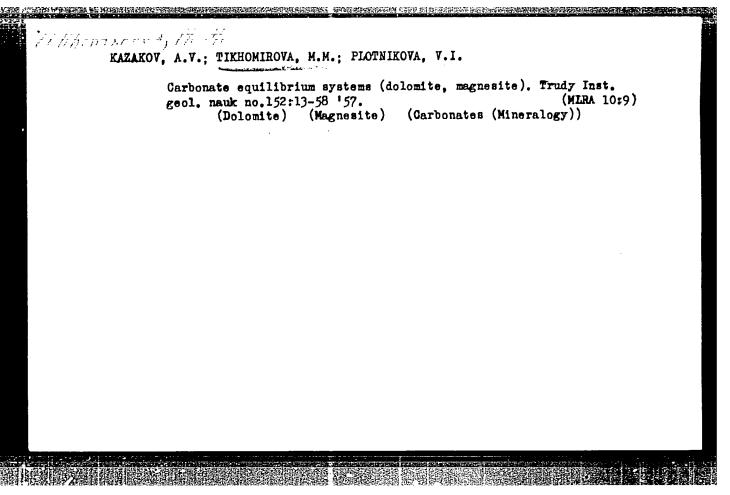
58







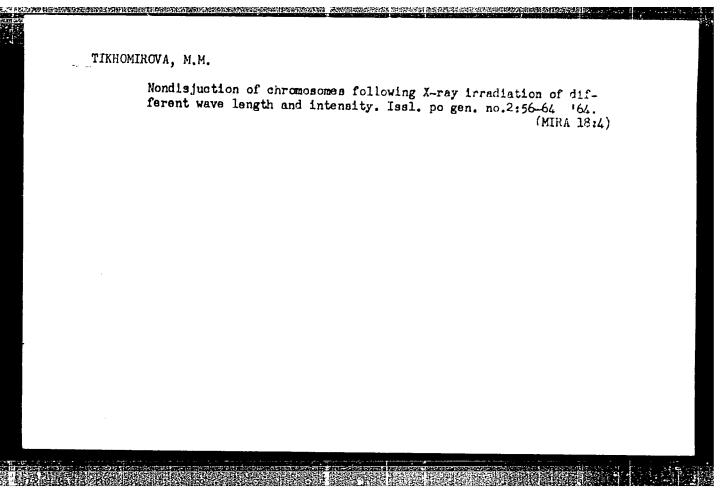




The FeOCO <sub>2</sub> - of siderites	The TeOCO <sub>2</sub> H <sub>2</sub> O system and conclusions drawn from the of siderites and phosphorites. Trudy Inst. geol. nauk n				
<b>'</b> 57•	(Siderite)	(Phosphorites)	(MLRA 10:9)		
		•			

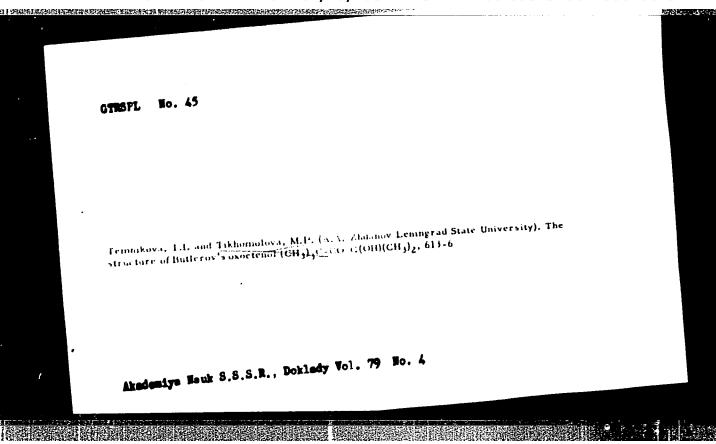
TAGEYEVA, Nadezhda Viktorovna; TIKHCHIROVA, Mariya Matveyevna; TEODOROVICH, G.I., doktor geol.-min. nauk, otv. red.; FILIPPOVA, B.S., red. izd-va; PRUSAKOVA, T.A., tekhn. red.

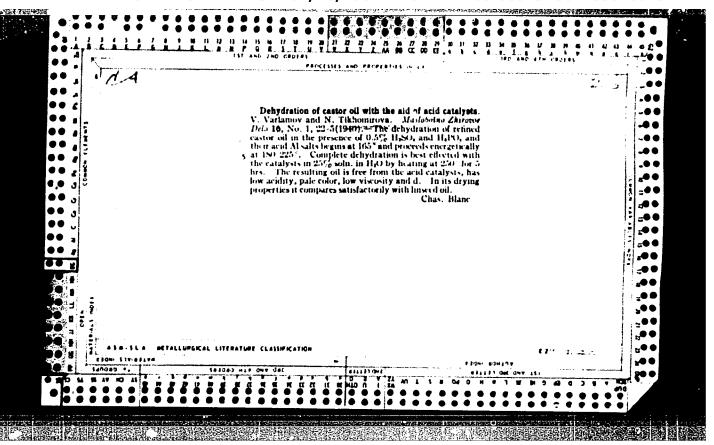
[Geochemistry of interstitial waters in the diagenesis of marine sediments; as revealed by the study of sediments in the Caspian Sea] Geokhimiia porovykh vod pri diageneze morskikh osadkov; na primere osadkov Kaspiiskogo moria. Moskva, Izd-vo Akad. nauk SSSR, 1962. 244 p. (MIRA 15:7) (Caspian Sea-Deep-sea deposits)



TIKHOMIROVA, M.M.; DUEROVA, S.Ye.; YANUSH, I.M.

Comparative study of radiation aftereffect on the nondisjunction of chromsomes. Issl. po gen. no.2:65-63 '64. (MIRA 18:4)





ROMANTSEV, Ye.F.; TIKHOMIROVA, M.V.

Protection of animals from gamma rays with the help of some aminophenones. Radiobiologiia 3 no.1:126-129 \*63.

(GAMMA RAYS-SAFETY MEASURES) (FROFICPHENONE)

(ACETOPHENONE) (BUTYROPHENONE)

TIKHOMIROVA, M.V.; YEVSEYEVA, N.K.; SHISHAKOVA, I.A. (Moskva)

Amount of copper in the blood of animals during subacute radiation injury. Pat. fiziol. i eksp. terap. 5 no.4:69-70 J1-Ag '61.

(MIRA 14:9)

(COPPER IN THE BODY) (RADIATION SICKNESS)

### TIKHOMIROVA, N.

Reliable helpers. NTO 4 no.1:25-26 Ja '62. (MIRA 15:1)

1. Uchwnyy sekretar' Leningradskogo oblastnogo soveta nauchnotekhnicheskikh obshchestv. (Leningrad Province--Research, Industrial)

SOKHRINA, Raisa Fedorovna, nauchnyy sotrudnik; CHKLPANOVA, Ol'ga Mikhaylovna, kand.geogr.nauk; SHAROVA, Valeriya Yakovlevna, kand.geogr.
nauk. Prinimali uchastiye: RUBINSHTEYN, Ye.S., prof.; DROZDOV,
O.A., prof., doktor geograf.nauk, red.; FRIK, Z.M.; PISAREVA,
G.P., nauchnyy sotrudnik; GALINA, M.B.; KOSKNKOVA, Z.D.; TIKHOMIROVA, N.A.; FEDOSEYEVA, G.N., POKROVSKAYA, T.V., kand.geograf.
nauk, red.; PISAREVSKAYA, V.D., red.; VOLKOV, N.V., tekhn.red.

[Air pressure, air temperature and atmospheric precipitation in the Northern Hamisphere] Davlenie vozdukha, temperatura vozdukha i atmosfernye osadki severnogo polushariia. Pod red. O.A.Drozdova i T.V.Pokrovskoi. Leningrad, Gidrometeor.izd-vo. 1959. 473 p. [\_\_Atlas of charts] Atlas kart. (MIRA 13:4) (Meteorology--Charts, diagrams, etc.)

UFLYAND, Yu. M.; TIKHOMIROVA, N. A.; FARFEL!, M. N.

Fifty years of activity for the Department of Physiology of the Leningrad Sanitary Hygienic Medical Institute. Trudy ISGMI 64: 7-39 161.

(PHYSIOLOGY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

#### TIKHOMIROVA, N. A.

Effect of local cooling on the state of the neuromuscular system.

Trudy ISCMI 64:236-246 '61. (MIRA 15:7)

l. Kafedra fiziologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Zav. kafedroy - prof. Yu. M. Uflyand.

(COLD—PHYSIOLOGICAL EFFECT) (NERVOUS SYSTEM) (MUSCLES)

Contractile ability of muscles during their cooling. Trudy

ISCMI 64:247-258 161. (MIRA 15:7)

l. Kafedra fiziologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Zav. kafedroy - prof. Yu. M. Uflyand.

(MUSCLES\_MOTILITY) (COLD\_PHYSIOLOGICAL EFFECT)

#### TIKHOMIROVA, N. A.

State of cooled muscles in the varying excitability of the nerve centers. Trudy ISGMI 64:299-306 '61. (MIRA 15:7)

1. Kafedra fiziologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Zav. kafedroy - prof. Yu. M. Uflyand.

(COLD—PHYSIOLOGICAL EFFECT)
(MUSCLES—INNERVATION)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

STISHOV, S.M.; TIKHOMIROVA, N.A.

Phase diagram for tellurium. Zhur. eksp. i teor. fiz. 49 no.2: 618-620 Ag 165. (MIRA 18:9)

l. Institut kristallografii AN SSSR.

UR/0386/66/004/005/0161/0364 L hh731-66 EWT(m)/EWP(t)/ETI LJP(c) TD/M/10 SOURCE CODE: AP6031982 ACC NRI AUTHOR: Stishov, S. M.; Tikhomirova, N. A.; Tonkov, Ye. Yu. ORG: Institute of Crystallography, Academy of Sciences SSSR (Institut kristallografii Akademii nauk SSSR) TITLE: The maximum on the melting curve of tellurium SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 5, 1966, 161-164 TOPIC TAGS: tellurium, melting point, phase transition, pressure effect, high pressure ABSTRACT: The purpose of the investigation was to ascertain whether the compression research curve of melting liquid tellurium is perfectly smooth in the region of the maximum observed on its melting curve, or whether it has some singularities pointing to the localization of this anomaly in a definite region of pressures and temperatures. To this end, the authors continued their earlier work (ZhETF v. 49, 618, 1965) and made a detailed study of the melting curve of tellurium, from which they deduced a localized change in the properties of liquid tellurium along the melting curve. The pressure was produced by compressing gasoline or silicone oil in a high-pressure multiplicator, and was measured with a manganin manometer accurate to 50 kg/cm2. The temperature was measured with a chromel-alumel thermocouple accurate to 0.2C. The purity of the investigated tellurium was 99.999%. The melting curve of tellurium was plotted up to 18,000 kg/cm2. The curve showed three distinct sections: initial, up to ~3800 kg/cm2 Card 1/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

L 04787-67 EWT(1)/EWT(m)/EWP(t)/ETI 1JP(c) JD/WW/AT

ACC NR: AP6024469 SOURCE CODE: UR/0181/66/008/007/2084/2086

AUTHOR: Gulyamov, K.; Tikhomirova, N. A.; Turyanitsa, I. D.; Fridkin, V. M.

ORG: Institute of Crystallography, AN SSSR, Moscow (Institut kristallografii AN SSSR)

TITLE: Photoconductivity of  $SbI_3$  and  $BiI_3$  single crystals at high hydrostatic pressures

SOURCE: Fizika tverdogo tela, v. 8, no. 7, 1966, 2084-2086

TOPIC TAGS: photoconductivity, spectral distribution, antimony compound, bismuth compound, iodide, forbidden band, pressure effect, carrier lifetime, electron recombination

ABSTRACT: Rhomboledral crystals were grown from the gas phase in the form of plates measuring 0.1 x 0.5 cm and their photoconductivity was investigated at pressures up to 14,000 atmospheres at room temperature. The measurements were made in a high-pressure multiplicator using a procedure described earlier (FTT v. 7, 1037, 1965 and earlier). The tests yielded plots of the spectral distribution of the photocurrent, the variation of the width of the forbidden gap with pressure, and the pressure dependence of the relative density of the dark current. The tests have shown that the maxima of the spectral distribution of the photocurrent chifts toward longer wavelengths for both crystals. The pressure dependence of the photocurrent was also measured. In SbI<sub>3</sub> a strong increase in the photocurrent is accompaned also by an increase in the dark current, whereas in BiI, the dark current decreases under pressure.

Card 1/2

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L 04787-67 ACC NR: AP6024	9469				0			
while the photocurrent -ncreases slowly. The observed increase in photocurrent is explained in accordance with a mechanism proposed in the earlier papers, wherein the increase in the photocurrent is due to the increase of the lifetime of the nonequilibrium carriers, which in turn is due to the change in the distance between the Fermi level and the recombination level. Orig. art. has: 2 figures and 2 formulas.								
SUB CODE: 20/	SUBM DATE: 10Dec65/	ORIG REF:	003/ OTH	REF: 092				
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Card 2/2								

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

Methods for leading thermocouples into high-pressure chambers.

Prib. i tekh.eksp. 10 no.5:251 S-0 165.

(MIRA 19:1)

1. Institut kristallografii AN SSSR, Moskva. Submitted Sept.4, 1964.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

STISHOV, S.M.; TIKHOMIROVA, N.A.

Melting curves for bismuth telluride (Bi<sub>2</sub>Te<sub>3</sub>) and antimony telluride (Sb<sub>2</sub>Te<sub>3</sub>) at high pressures. Pist. v red. Zhur. eksper. i teor. fiz. 1 no.1:20-22 Ap '65. (MIRA 18:9)

1. Institut kristallografii AN SSSR.

SOURCE CODE: UR/0120/65/000/005/0251/0251 AUTHOR: Stishov, S. M.; Tikhomirova, N. A ORIG: Institute of Crystallography, AN SSSR, Moscow (Institut kristallografii AN SSSR) TITLE: Methods for thermocouple introduction into high pressure chambers SOURCE: Pribory i tekhnika eksperimenta, no.5, 1965, 251 TOPIC TAGS: thermocouple, temperature measurement, high pressure chamber, measurgM ing instrument ABSTRACT: The highest experimental errors during temperature measurements in internalnally heated high-pressure chambers are due to additional thermal emf's generated at the junctions between thermocouple terminals and the steel connectors. The authors found that Chromel and Alumel cones with 12 opening angle and bases with 2.5 and 1.2 mm in diameter can successfully withstand hydrostatic pressures up to 30 katm and can survive numerous, load cycles. A second method used introduces connector wires through epoxy resin gaskets b This alternate method is employed and successfully tested under pressures up to ~ 25 katm. A third method, using the compensation of the additional emf's is also described. Tests show that parasitic emf's do not exceed 0.01 mv, which for a chromelalumel thermocouple corresponds to less than 0.25C. Orig. art. has: 1 figure. UDC: 536.532:539.89 SUB CODE: TD / SUBM DATE: 04Sep64 / OTH REF: 003 1/1

是对某个人们也是这些企业的成功。这些是是现代的自然的问题的证明是的企业的的现象。在ASM OF 1929的 12 1920日 1919年20日间,12 1919年20日间的1919年20日间,1919年20日间,1919年

L 9259<u>-66</u> EWT(1)/EWT(m)/EPF(n)-2/EWA(d)/EWP(t)/T/EWP(k)/EWP(b)/EWA(c)SOURCE CODE: UR/0181/65/007/009/2723/2725 ACC NR: AP5022712 JD/WW/HEI/GG/AT 411,5 44,55 44,55 44,55 Gulyamov, K.; Tikhomirova, N. A.; Turyanitsa, I. D.; Fridkin, Y. M. AUTHOR: Ch Charles Commence Commence ORG: Institute of Crystallography AN SSSR, Moscow (Institut kristallografii AN SSSR) TITLE: Photoconductivity of HgI2 single crystals under high hydrostatic pressures, Fizika tverdogo tela, v. 7, no. 9, 1965, 2723-2725 TOPIC TAGS: mercury compound, iodide, single crystal, photoconductivity, pressure effect, high pressure research 21,141,55 ABSTRACT: Photocurrent was studied as a function of pressure up to 17,000 atmospheres at room temperature in single crystals of HgI2. Measurements were made on tetragonal single crystals (red mercuric iodide) grown from solution. Curves are given showing photocurrent as a function of incident wavelength for various hydrostatic pressures. The long-wave maximum corresponding to the fundamental absorption edge is shifted into the longer wave region as the pressure is increased. This maximum is located at 580 mµ ( $E_g$  = 2.14 ev) at atmospheric pressure. The change in energy with pressure conforms to the law  $dE_g/dP = -(9 \pm 0.7) \cdot 10^{-6}$  ev/at. The photocurrent first decreases with pressure increase, passing through a minimum in the neighborhood of 700 atmospheres, and then increases with pressure up to 12,000 atmospheres. At about 13,000 atmospheres, a phase transition is observed which is accompanied by a drop in photo-Card 1/2

current. Thus is apparently hasis for a mo sure for this	the minimum caused by a	a change in the contract of th	n carrier lift complex relati	Fetime. This lonship betwo	hypothe en photo	esis is use	das a
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Card 2/2 <sub>D0</sub> )							

129-58-8-4/16 AUTHORS: Tikhomirov, A. V., Sukhobokova, N. V. and Tikhomirova, N.A. Embrittlement of the Steel 20KhN14S2 During the Process of Ageing at 500 to 650°C (Okhrupchivaniye stali 20KhN14S2 v protsesse stareniya pri 500-650°) TITLE: PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 8, pp 22-25 + 1 plate (USSR) ABSTRACT: Austenitic stainless steels which are used for components operating inside corrosive media at elevated temperatures should be stable against inter-crystallite corrosion and possess sufficiently high mechanical properties during However, almost all the steels the entire service life. of this class are subjected to varying degrees of dispersion hardening which brings about embrittlement and inclination to develop inter-crystallite corrosion. The authors investigated the stability of the Soviet steel 20KhN14S2 which is used as material for special power generation equipment; the chemical analyses of the experimental melts were as follows: No.25557 - 0.08% C, 2.35% Si, 0.93% Mn, 20.2% Cr, 13.23% Ni, 0.013% S, 0.025% P. No.25622 - 0.08% C, 2.83% Si, 1.14% Mn, 21.10% Cr, 13.24% Ni, 0.013% S 0.023% B 13.24% Ni, 0.012% S, 0.022% P.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

Card 1/3

129-58-8-4/16

Embrittlement of the Steel 20KhN14S2 During the Process of Ageing at 500 to 650°C

It was found that, compared with the austenised state, preliminary stabilisation only brings about a conservation of the properties during ageing at a certain level but does not influence the reduction or the increase in the degree of embrittlement. The change of the impact strength of stainless steels with a tendency to embrittlement during ageing appears to comply with An analogous relation a definite relation. (decrease of the impact strength during ageing) was found to exist for the Steel EI448 investigated at the Central Works Laboratory of the imeni S. Ordzhonikidze Works. On the basis of the obtained results the authors arrived at the following conclusions: 1) During ageing in the temperature range 500 to 650°C

the investigated steel has a tendency to embrittlement, thus reducing the ductility and particularly the impact strength.

2) The greatest reduction in the impact strength at a certain temperature takes place at the initial period of Card 2/3 ageing, i.e. during the first 200 to 300 hours. During

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

129-58-8-4/16

Embrittlement of the Steel 20KhNl4S2 During the Process of Ageing at 500 to  $650\,^{\circ}\text{C}$ 

the further ageing the decrease in the impact strength is less intensive.

3) Stabilisation of the investigated steel after hardening does not influence appreciably the process of ageing. The final degree of embrittlement is practically equal in the case of hardening for obtaining austenite as well as in the case of hardening followed by stabilisation.
4) The investigated steel showed a tendency to intercrystallite corrosion in tests carried out according to the method A-2 of the specifications GOST-6032-51.
There are 6 figures and 1 table.

ASSOCIATION: Podol'skiy mashinostroitel'nyy zavod imeni Ordzhonikidze (Podol'sk Engineering Works imeni Ordzhonikidze)

1. Stainless steel--Hardening 2. Stainless steel--Properties Card 3/3 Stainless steel--Test results

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

84127

5/070/60/005/005/016/017

E132/E360

9.6/80 AUTHORS:

Tikhomirova, N.A., Zalesskiy, A.V. and

Tambovtsev, D.A.

TITLE:

The Application of Strain Gauges for Measuring the Compressibility of Solid Bodies at High Hydrostatic

Pressures

PERIODICAL:

Kristallografiya, 1960, Vol. 5, No. 5,

pp. 823 - 825

TEXT: X-ray and thermographic methods of detecting phase transitions under very high pressures are technically very complicated and it has been shown that it is sufficient for the detection of first- and second-order phase transitions to measure compressibility as a function of pressure. The difficulty is then to provide a sufficiently sensitive pressure gauge. Here, a method of measuring the changes in the linear dimensions of a specimen is described. A strain gauge is cemented to the specimen in the pressure chamber which is filled with isopentane or benzol B-70 and changes in length of 0.0001% can be detected. The high pressure in the bomb is supplied by a multiplier and may reach 20 000 kg/cm. The pressure 2 is read from a manganin pressure gauge to an accuracy of 100 kg/cm. The

84127

S/070/60/005/005/016/017 E132/E360

The Application of Strain Gauges for Measuring the Compressibility of Solid Bodies at High Hydrostatic Pressures two Gauges is measured with simple Wheatstone bridges. Only three electrical lead-throughs into the pressure vessel are required. The pressure dependence of the resistance of the strain gauge and the other leads in the absence of a specimen has to be determined by a separate calibration. The correction amounts to about 4 ohms in 100. Compressibility curves for CsI, NaCl, LiF, Fe and a low-compressibility alloy T15K6 are reproduced and compared with Bridgman's figures. The accuracy appears to be high. It is intended to apply the method further for measuring anisotropic compressibilities which could not be studied by Bridgman's technique. There are 3 figures and 9 references: 5 Soviet and 4 English.

ASSOCIATION:

Institut kristallografii AN SSSR (Institute of Crystallography of the AS USSR)

SUBMITTED:

February 16, 1960

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

S/070/62/007/005/012/014 E132/E460

AUTHORS: Zheludev, I.S., Tikhomirova, N.A., Fridkin, V.M.

TITLE: The ferroelectric properties of triglycine sulphate

under high hydrostatic pressure

PERIODICAL: Kristallografiya, v.7, no.5, 1962, 795-797

The conductivity and ferroelectric properties of crystals of triglycine sulphate have been measured under hydrostatic The pressure was applied in a pressures of up to 25000 atm. multiplier, isopentane being used to transmit the pressure, which was measured with a manganin resistance manometer to an accuracy The temperature was controlled to 1°C and the of  $100 \text{ kg/cm}^2$ . hysteresis loop at 50 c/s was recorded together with the susceptibility at 800 c/s. With increasing pressure the height of the loop (spontaneous polarization) decreases by a factor of 3 at the highest pressure and the coercive field increases slightly. The dielectric constant decreased monotonically with pressure to about 50% of its value at atmospheric pressure. current increased by a factor of about 2 and the Curie temperature rose by 1.6 x  $10^{-3}$  °C/atm. The results show that at Card 1/2

The ferroelectric properties ... S/070/62/007/005/012/014 E132/E460

superhigh pressures the orientation of the domains is hindered and adsorption gives place to electroconductivity, ionic or electronic. There are 4 figures.

ASSOCIATION: Institut kristallografii AN SSSR

(Institute of Crystallography AS USSR)

SUBMITTED: December 20, 1961

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610013-2"

Melting curve of tellurium at pressures up to 23,000 kg./cm<sup>2</sup>.

Zhur.eksp.i teor.fiz. 43 no.6:2321 D '62. (MIRA 16:1)

1. Institut kristallografii AN SSSR.

(Melting points) (Tellurium) (High-pressure research)

L 19567-63
ACCESSION NR: AP3007519

EWP(q)/EWT(m)/EWP(B)/BDS AFFTC/ASD JD S/0181/63/005/009/2709/2711

AUTHOR: Tikhomirova, N. A.; Fridkin, V. M.

static pressures 4 sulfur single crystals at high hydro-

SOURCE: Fizika tverdogo tela, v. 5, no. 9, 1963, 2709-2711

TOPIC TAGS: sulfur photoconductivity pressure dependence, sulfur single crystal photoconductivity, sulfur photoconductivity, crystal

ABSTRACT: A strong increase in the photoconductivity of sulfur single crystals under pressures up to 10,000 atm in an environment of isopentane was observed and investigated. Specimens in the form of plates about 1 mm thick and 0.5 cm square were placed in a condensor and illuminated through a quartz window by an incandescent lamp outside the pressure chamber. The resulting longitudinal photocurate was plotted against applied voltage at various pressures, and exponential. The voltage dependence of the photocurrent was seen to be nearly linear at high pressures and tends to saturation at high field

L 19567-63 ACCESSION NR: AP3007519

intensities. These phenomena demonstrate an increase in carrier life and an increase of the stationary secondary photocurrent through the crystal. The measurements of the dependence of the photodepolar-tric field revealed that the dependence is exponential and that the saturation level rises with the pressure. It is noted that the relaxation time is nearly independent of the pressure, since the secondary photocurrent apparently does not substantially affect the hiftidant narrowing of the forbidden zone under pressure may result a sizeable change of lifetime of photocurrent carriers, which is supported by Rose phenomenology theory. Orig. art. has: 2 figures.

ASSOCIATION: Institut kristallografii AN SSSR, Moscow (Institute of Crystallography, AN SSSR)

SUBMITTED: 22Apr63

DATE ACQ: 140ct63

ENCL: 00

SUB CODE: PH

NO REF SOV: 003

OTHER: 005

Card 2/2

KHOVALOY, G.F., TIKHOMBOVA, M.A.
Window for optical observations as a properties. The state of tekh. eksp. 8 no.6:191 N-D 163.
1. Institut kristallografii Ab Coll.

L 38892-66 EWT(1)/EWT(m)/T/EWP(t)/ETI ACC NR: IJP(c) AP6018559 JD AUTHOR: Fridkin, V. M.; Gulyamov, K.; Lyakhovitskaya, V. A.; Nosov, V. N.; Tikho SOURCE CODE: UR/0181/66/008/006/1907/1909 mirova, N. A. ORG: Institute of Crystallography, AN SSSR, Moscow (Institut kristallografii AN SSSR) TITLE: Anomaly of optical properties of ferroelectric SbSI in the phase-transition SOURCE: Fizika tverdogo tela, v. 8, no. 6, 1966, 1907-1909 TOPIC TAGS: antimony compound, phase transition, Curie point, ferroelectric property, forbidden band, pressure effect, paraelectricity, electron interaction, phonon interaction, temperature dependence, absorption edge, offic property ABSTRACT: This is a continuation of earlier work (DAN SSSR v. 161, 1060, 1965), where an anomalously large shift of the intrinsic-absorption edge was observed in SbSI single crystals with increasing pressure. The present study is devoted to a more detailed investigation of this shift, and discloses that the anomaly appears only in the vicinity of the phase transition. The authors measured the dependence of the width of the forbidden band Eg on the hydrostatic pressure p and the temperature T in the phasetransition region. The crystals were grown from the gas phase, the width of the forbidden band was determined by measuring the shift of the maximum of the photocurrent, and the high pressure was produced with apparatus described elsewhere (FTT v. 7, 4, 1965). The pressure was measured with a resistance manometer and the temperature was

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L 35892-66

ACC NR: AP6018559

measured in a vacuum thermostat. The results show that in the vicinity of the Curie point the values of dEg/dT and (dEg/dp)\_T became anomalously large. Away from the phase-transition point, the variation of Eg is the same as determined by the direct electron-phonon interaction dEg/dET = (dEg/dT)y, whereas in the phase transition region dEg/dT is determined by the temperature expansion of the crystal and dEg/dT >> (dEg/dT)y. On going from the ferroelectric into the paraelectric region, the electron-phonon interaction terms decreases in absolute value by a factor of almost 2. The authors thank V. L. Bonch-Bruyevich, R. A. Suris, and A. P. Levanyuk for a discussion of certain results obtained in the present work. Orig. art. has: 3 figures.

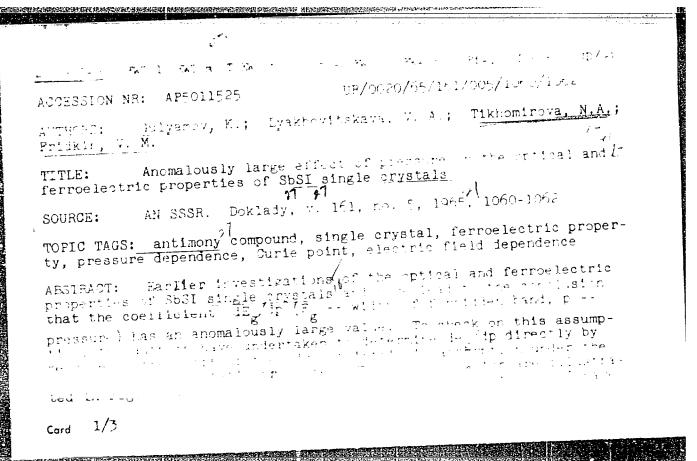
SUB CODE: 20/ SUBM DATE: 07 Jul65/ ORIG REF: 002/ OTH REF: 003

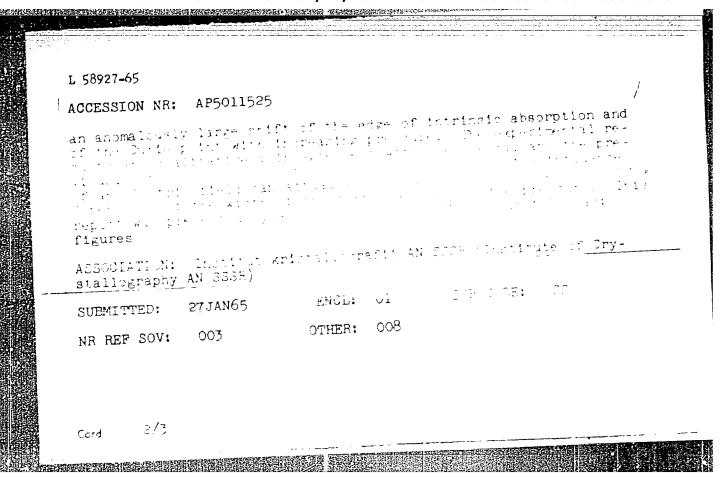
其。此一种,我们就是一种,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

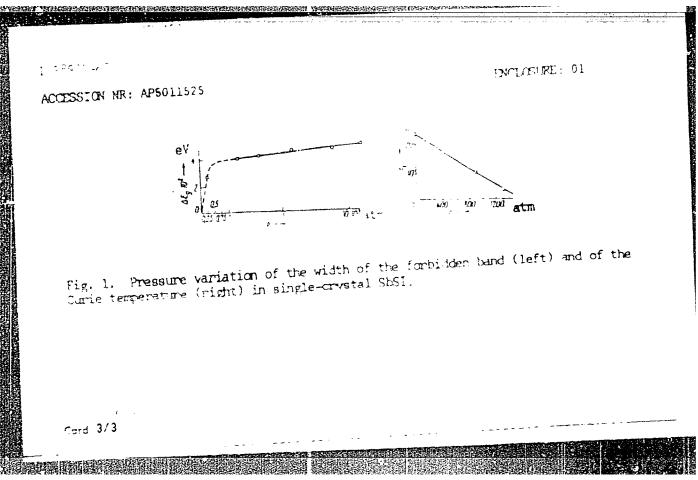
L 52972-65 EMILMINEHPILINEHI S. ..... UR/0056/65/048/004/1215/1216 ACCESSION NR: AP5010527 AUTHOR: Stishov, S. M.; Tikhomirova, H. A. HITLE: Maximum on the melting curve of antimony SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 68, no. 4, 1965, 1215-1216 TOPIC TAGS: antimony, melting curve, phase transition, second order phase transition, solid state transition, pressure effect I more thorough study than made in the past by other authors was made ARSTRACT a, mans of active of the company that pair of with an aim at ob-J. \* 1 \* sortistic for a experimental metods and one or concentration of the experimental metods as a second order to the experimental metods as a second order to the experimental and the experimental metods as a second order to the experimental and The court of the c The state to true wife a first substitute and the state of the season steel state of the state of the season steel state of the state o 2 The St (1) Provide the Control of State (Annual Control of Card 1/2

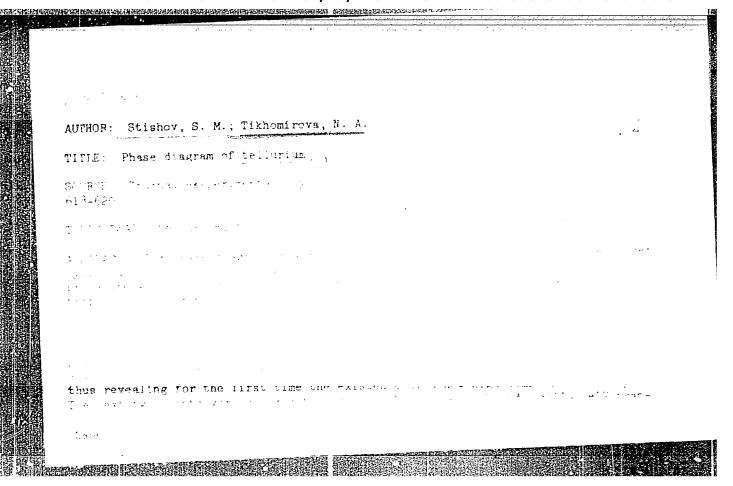
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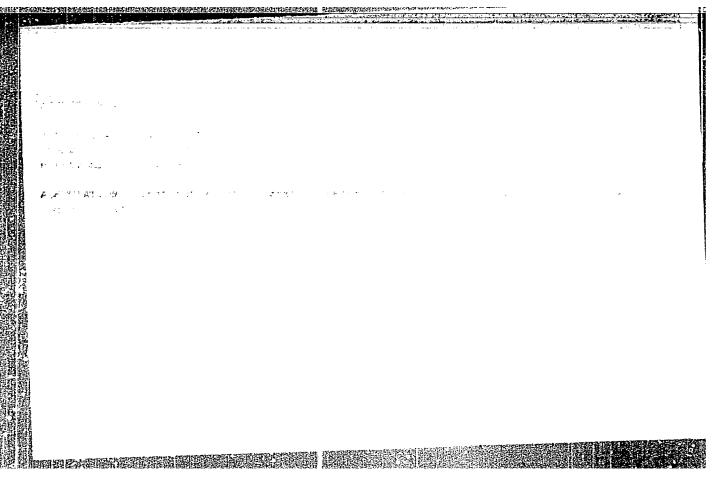
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ACCESSION NR: AP5 01 3666

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AUT OR: Stishov, S. M.; Tikhozirova, R. A.

TITLE: Melting curves of bismuth telluride and antimony telluride at high pres-

Sour E: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Pr.\_ozheniye, v. 1, no. 1, 1965, 20-22

TOPIC TANS: bismuth telluride, antimony telluride, melting curve, pressure depend-

ABSTRACT: To confirm the evidence that Bi2Te3 becomes metallic under pressure (Ye. S. itskevich, S. V. Popova, and E. Ta. Atabayeva, DAN SSSR v. 153, 306, 1363), and cl rify the details of this transition, the authors investigated, by the thermal unalysis method, the phase diagrams of Bi2Te3 and So2Te3 under hydrostatic pressures up .0 25,000 kg/cm2. The temperature and pressure were measured accurate to \$ 0.50 and \$ 75 kg/cm, respectively. The melting curves for Telland St. Telland St. Telland maxima at 603. 30 and 16,000 kg/cm2 for BigTe; and 'c. 30 and 3. 30 kg, mr for So, Te; in addition to the maxima, both curves exhibit kinks which obviously re-

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present termary points corresponding to the crossing of the melting curves and the lines of phase transition into the solid state. However, the phase transitions themselves were not registered, probably because the heats of the transitions were too low. The authors thank L. V. Poretskaya for graciously furnishing the antimony telluride sample." Orlg. art. has: I figure.

ABSOCIATION: Institut bristallografii Akademii nauk 998R (Institute of Crystallography, Academy of Sciences, SSSR)

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TITLE: Effect of high hydrostatic pressure on the photoconductivity of CdS single erystals	
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